

# TM65

## Mid-level Report



HP5+AS5: 5-1Gn Designline Ceran Glass Hotplate 1875mm (Ass. Serve)

Assessment Date 01/10/2025

Manufacturer CED Fabrications

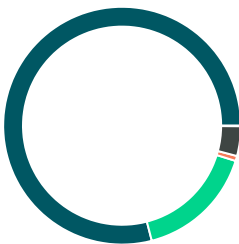
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### Metrics

Embodied Carbon

948 kgCO2e

### Embodied Carbon Footprint



- Material
- Manufacture
- Transport
- Refrigerant
- Waste
- Disposal

### Product Information

|                                                                    |        |
|--------------------------------------------------------------------|--------|
| Capacity of equipment/size (kW; m3; litres; etc.)                  | N/A    |
| Product weight (kg)                                                | 85 kg  |
| Material % breakdown for at least 95% of the product weight? (Y/N) | Y      |
| Product service life (years)                                       | 10     |
| If refrigerant based, type of refrigerant used and GWP             | N/A    |
| Refrigerant charge (kg)                                            | N/A    |
| Energy consumption of the factory* per unit of product             | 99 kWh |
| Location of manufacture*                                           | N/A    |
| Product complexity category                                        | 3      |

| Embodied carbon results (kg CO2e) – breakdown                                 |                       |
|-------------------------------------------------------------------------------|-----------------------|
| A1: Material extraction                                                       | 486 kgCO2e            |
| A2: Transport                                                                 | 68 kgCO2e             |
| A3: Manufacturing                                                             | 107 kgCO2e            |
| A4: Transport to site                                                         | 3 kgCO2e              |
| A5: Construction                                                              | N/A                   |
| B1: Refrigerant leakage during use                                            | 0 kgCO2e              |
| B2: Maintenance (if information given by manufacturer)                        | N/A                   |
| B3: Repair                                                                    | 37 kgCO2e             |
| B4: Replacement                                                               | N/A                   |
| B5: Refurbishment                                                             | N/A                   |
| B6: Operational energy                                                        | N/A                   |
| B7: Operational water                                                         | N/A                   |
| C1: Refrigerant leakage when decommissioning                                  | 0 kgCO2e              |
| C2: Transport                                                                 | 1 kgCO2e              |
| C3: Waste processing                                                          | 27 kgCO2e             |
| C4: Disposal                                                                  | 0.42 kgCO2e           |
| Embodied carbon results (kg CO2e) – without refrigerant leakage               |                       |
| A1–C4 without buffer factor (excluding B1, C1)                                | 729 kgCO2e            |
| A1–C4 with buffer factor (excluding B1, C1)                                   | 948 kgCO2e            |
| Embodied carbon result (kg CO2e) – refrigerant leakage only                   |                       |
| B1 (refrigerant leakage during use) + C1 (refrigerant leakage at end of life) | N/A                   |
| Embodied carbon result with 'mid-level' calculation method – total            |                       |
| Result of 'mid-level' calculation method                                      | 948 kgCO2e            |
| Assumptions                                                                   |                       |
| A1: Material carbon coefficient source                                        | CIBSE TM65, Table 2.1 |
| B1: Refrigerant annual leakage rate (%)                                       | N/A                   |
| C1: Refrigerant end of life recovery rate (%)                                 | N/A                   |
| B3: Materials replaced as part of repair (%)                                  | 8                     |
| C4: Percentage of product going to landfill (%)                               | 55                    |

# Bill of Materials

| Component name                                     | Manufacturer name | Quantity |
|----------------------------------------------------|-------------------|----------|
| AS5HOT Designline Heated Gantry - Assisted Service | CED Fabrications  | 1        |
| HP5B 5-1Gn CERAN GLASS HOTPLATE BASE 1875mm        | CED Fabrications  | 1        |